

Assingment No2

index.html JS script.js

```
JS script.js > prime
1 // 1. Answer
2 // Write a Javascript function to check whether a triangle is equilateral,
3 // isosceles or scalene
4
5
6
7 let XY = 10;
8 let YZ = 20;
9 let ZX = 30;
10
11 console.log(`sides of traingle are XY = ${XY} , YZ = ${YZ} , ZX = ${ZX}`);
12
13 function triangle(params) {
14
15     if (XY === YZ && YZ === ZX && ZX === XY) {
16         console.log("All sides are equal hence it is a quilateral triangle");
17     } else if (XY === YZ && YZ === ZX && ZX !== XY) {
18         console.log("Two sides are equal hence it is a isosceles triangle");
19     } else if (XY !== YZ && YZ !== ZX && ZX !== XY) {
20         console.log("Sides are not equal hence it is a scalene triangle");
21     }
22 }
23
24
25 triangle();
26
27
28 // 2. Answer = Write a function using switch case to find the grade of a student base
29 // on marks obtained
30
```

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```
sides of traingle are XY - 10 , YZ = 20 , ZX = 30
script.js:11
Sides are not equal hence it is a scalene triangle
script.js:20
B grade
script.js:40
undefined
script.js:61
233168
script.js:78
2.7253921397507295e+78
script.js:97
Live reload enabled.
(index):40
```

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VS Code

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JS script.js > [0] prime

```
30
31 function Gcalci(marks) {
32
33     if (marks > 90 && marks < 100) {
34         console.log("S grade");
35     }
36     else if (marks > 80 && marks < 90) {
37         console.log("A grade");
38     }
39     else if (marks > 70 && marks < 80) {
40         console.log("B grade");
41     }
42     else if (marks > 60 && marks < 70) {
43         console.log("C grade");
44     }
45     else if (marks > 50 && marks < 60) {
46         console.log("D grade");
47     }
48     else if (marks > 40 && marks < 50) {
49         console.log("E grade");
50     }
51     else if (marks > 0 && marks < 40) {
52         console.log("Student has failed");
53     }
54     else {
55         console.log("Invalid marks");
56     }
57
58
59 }
```

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index.html

JS script.js

JS script.js > prime

```
54     else {
55         console.log("Invalid marks");
56     }
57
58
59 }
60
61 console.log(Gcalci(78));
62
63 // 3.Answer= . Write a JavaScript program to find the sum of the multiples of 3 and 5
64 // under 1000
65 var value;
66
67 function TandF(value) {
68     let sum=0;
69
70     for (let i = 1; i < value ; i++) {
71         if (((i%3 == 0) || (i%5 == 0))) {
72             sum =sum+i;
73         }
74     }
75     return sum;
76 }
77
78 console.log(TandF(1000));
79
80 //4.Answer = Write a program to find the factorial of all prime numbers between a
81 // given range . Range will be passed as 2 values in the function
82 // parameters. eg- if it is needed to find the values for numbers 1-100, then
```

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JS script.js > prime

```
77
78 console.log(TandF(1000));
79
80 //4.Answer = Write a program to find the factorial of all prime numbers between a
81 // given range . Range will be passed as 2 values in the function
82 // parameters. eg- if it is needed to find the values for numbers 1-100, then
83 // function declaration can look like - function prime(1,100).
84
85 const prime = (a,b) => {
86     let fact =a;
87
88
89     for(let i = a ; i <= b ; i++){
90         if ( i%2 != 0 ) {
91             fact =fact*i;
92         }
93     }
94     return fact;
95 }
96
97 console.log(prime(1,100));
```

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